

(19)日本国特許庁(JP)

(12) 公開特許公報(A)

(11)特許出願公開番号

特開平5-40768

(43)公開日 平成5年(1993)2月19日

(51)Int.Cl. <sup>5</sup>	識別記号	庁内整理番号	FI	技術表示箇所
G 0 6 F 15/21	3 6 0	7218-5L		
15/42		M 7060-5L		

審査請求 未請求 請求項の数1(全 6 頁)

(21)出願番号 特願平3-194629

(22)出願日 平成3年(1991)8月5日

(71)出願人 000242668

北陸日本電気ソフトウェア株式会社

石川県石川郡鶴来町安養寺1番地

(72)発明者 西谷 隆

石川県石川郡鶴来町安養寺1番地北陸日本

電気ソフトウェア株式会社内

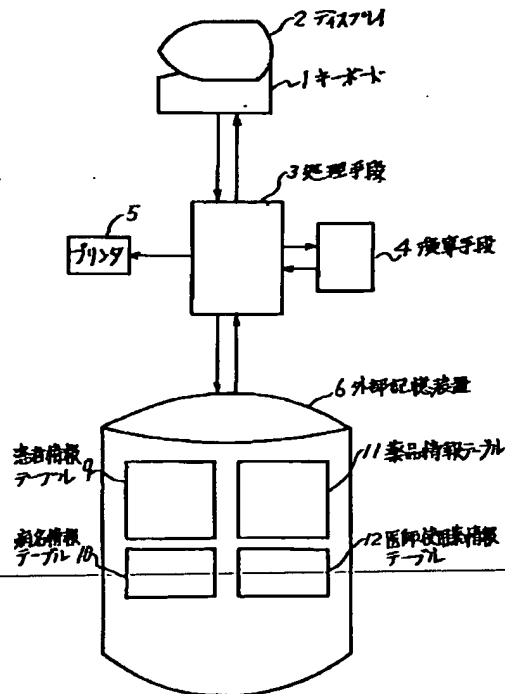
(74)代理人 弁理士 内原 晋

(54)【発明の名称】 処方データ入力装置

(57)【要約】

【目的】 専用のオペレータを必要とすることなく、また薬品の投与量を手計算する必要が無く簡単に処方箋を作成することのできる装置を提供する。

【構成】 患者に関する患者コードその他の必要情報および薬品と病名および医師と医師コードおよびその医師が使用する薬品に関する情報および薬品とその成人の常用量とを記憶しておく外部記憶装置6を設け、キーボード1から患者コードと医師コードとを入力し処理手段3により前述した外部記憶装置6に記憶されている情報を基にこの患者コードに該当する患者の病名に適した薬品名のリストを生成し、この薬品名の薬品の投与量を演算手段4により算出させその結果をディスプレイ2に表示させる。この表示させた薬品の中から薬品を選択して処方箋データを生成させ、必要に応じて、プリンタ5にそのデータを出力させる。



## 【特許請求の範囲】

【請求項1】 キーボードと、ディスプレイと、患者の氏名に対して患者コードと年齢と性別と体重およびその病名とが対応付けられている患者情報テーブルと、病名とこの病名に対応して病名コードとその病名に対応する限定病名とが対応付けられた病名情報テーブルと、薬品名とこの薬品名に対する薬品コードと成人の常用量と限定する病名とが対応付けられた薬品情報テーブルと、医師とこの医師に対する医師コードとこの医師が使用する薬品コードとが対応付けられている医師使用薬情報テーブルとを記憶する外部記憶装置と、演算すべきデータとこのデータに関する演算処理指令が加えられたとき、予め決められた方法でこのデータに基づく演算を行いその結果を出力する演算手段と、前記キーボードより患者コードと医師コードとが入力されたとき、入力された患者コードに該当するデータを前記患者情報テーブルから抽出しまた入力された医師コードに該当するデータを前記医師使用薬情報テーブルより抽出しこれら抽出したデータ中にある病名に対応する限定病名を前記病名情報テーブルから抽出し前記医師使用テーブルから抽出した薬品コードに該当しかつ前記抽出した限定病名に対応している薬品コードを前記薬品情報テーブルより抽出しこの薬品情報テーブル内の情報を基に前記演算処理指令をこの指令に必要なデータとともに出力しその結果前記演算手段が出力する値を投与量とした前記患者コードの患者に対する投与薬品のリストとこの薬品の投与量とを関連付けたデータとしてディスプレイに出力しこのディスプレイに表示された薬品リストの内前記キーボードにより選択指定された薬品以外の薬品とこの投与量を消去した処方箋データを生成し印字記憶しておき前記キーボードからの出力指令によって前記処方箋データを出力する処理装置とを備えることを特徴とする処方データ入力装置。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】本発明は、処方データ入力装置に関し、特に、医師等が対象とする患者に対して与える医薬品の品名とその薬品量を決定しデータとして入力するときに使用する処方データ入力装置に関する。

## 【0002】

【従来の技術】医療機関における医療事務の中で、レセプト処理（診療報酬明細書を作成する処理）は近年急速に電子計算化されている。そのため、医師が処方した投薬データも電子計算機に入力する必要があり、さまざまな方式により投薬データが入力されている。

【0003】従来のこの種の装置では、医師が手書きした処方箋を基にオペレータが薬品名を予め決められているコードに変換し、その投与量とともに電子計算機に入力するものと、医師が直接電子計算機に薬品名と投与量を入力するための装置とがある。

## 【0004】

【発明が解決しようとする課題】本発明は、予め装置内に各種の患者の専用のオペレータを必要とせず、医師が必要とする薬品と投与量が自動的に表示され、文献を見たり投与量を計算したりせずに入力操作が行えるようにすることを目的とする。

【0005】上述した従来のこの種の処方データ入力装置では医師以外のオペレータが医師の作成した処方箋に基づいて薬品名をコードに変換しその投与量とともにデータとして電子計算機に入力する場合には薬品名をコードに変換するときの誤りおよび投与量の入力誤り等を生じ易いので、上述した入力データについて薬剤師などにより処方監査が不可欠となり、このようなデータの入力から、そのデータの監査の終了までに多大の時間を必要とする欠点があった。

【0006】また、医師が上述したような薬品名またはそのコードおよび投与量を入力する装置（電子計算機）の場合には、この種の装置に対する取扱いに通常不慣れなため所要データの入力に多くの時間を必要とする欠点があった。

【0007】さらに、上述した何れの装置に関しても、入力すべき薬品の投与量は対象とする患者の年齢、体重その他に患者が他の病気に罹病しているか否か等に依存するため、投与量をデータとして装置に入力する以前に、その値の決定には医師の知識を必要とし場合によっては対象とする薬品についての資料を調査することにより、多くの時間を必要とする問題点がある。

## 【0008】

【課題を解決するための手段】本発明の処方データ入力装置は、キーボードと、ディスプレイと、患者の氏名に対して患者コードと年齢と性別と体重およびその病名とが対応付けられている患者情報テーブルと、病名とこの病名に対応して病名コードとその病名に対応する限定病名とが対応付けられた病名情報テーブルと、薬品名とこの薬品名に対する薬品コードと成人の常用量と限定する病名とが対応付けられた薬品情報テーブルと、医師とこの医師に対する医師コードとこの医師が使用する薬品コードとが対応付けられている医師使用薬情報テーブルとを記憶する外部記憶装置と、演算すべきデータとこのデータに関する演算処理指令が加えられたとき、予め決められた方法でこのデータに基づく演算を行いその結果を出力する演算手段と、前記キーボードより患者コードと医師コードとが入力されたとき、入力された患者コードに該当するデータを前記患者情報テーブルから抽出しまた入力された医師コードに該当するデータを前記医師使用薬情報テーブルより抽出しこれら抽出したデータ中にある病名に対応する限定病名を前記病名情報テーブルから抽出し前記医師使用テーブルから抽出した薬品コードに該当しかつ前記抽出した限定病名に対応している薬品コードを前記薬品情報テーブルより抽出しこの薬品情報

3

テーブル内の情報を基に前記演算処理指令をこの指令に必要なデータとともに出力しその結果前記演算手段が出力する値を投与量とした前記患者コードの患者に対する投与薬品のリストとこの薬品の投与量とを関連付けたデータとしてディスプレイに出力しこのディスプレイに表示された薬品リストの内で前記キーボードにより選択指定された薬品以外の薬品とこの投与量を消去した処方箋データを生成し印字記憶しておき前記キーボードからの出力指令によって前記処方箋データを出力する処理装置とを備えて構成されている。

【0009】

【実施例】次に本発明について図面を参照して説明する。

【0010】図1は、本発明の一実施例を示すブロック図であり、図2は図1の外部記憶装置6の記憶内容の説明図であり、図3はディスプレイへの画面表示の一例を示す説明図であり、図4は本発明の動作を説明するフローチャートである。

【0011】本実施例は、データの入力手段としてのキーボード1と、必要な情報を表示する出力手段としてのディスプレイ装置2と、患者情報テーブル9、病名情報テーブル10、薬品情報テーブル11、医師使用薬情報テーブル12とを格納する外部記憶装置6と、演算指示が加えられたときその指示に対応して予め定められた手順による演算を行う演算手段4と、キーボードからの入力に応じて予め定められた処理および上述の演算指示を出力し演算手段4の生成したデータを取り込む処理手段3と処理手段3からの出力を紙面にプリントするプリンタ5より構成される。

【0012】外部記憶装置6の中の患者情報テーブル9には、患者コード、この患者コードに対応して氏名、年齢、体重、病名が登録されている。病名情報テーブル10には、病名コード、病名分類、病名などが病名コードに対応して登録されている。薬品情報テーブル11には、薬品コードとこの薬品コードに対応する薬品名、その成人常用量、その薬効、限定病名などが医師コードに対応して登録されている。

【0013】次に、図4のフローチャートを参照して動作を説明する。まず、処方データを入力する医師は、キーボードを操作し、医師コードと患者コード4を入力データとして入力する(ステップ101)。処理手段3は、この入力データにより、外部記憶装置6に記憶されている患者情報テーブル9の中から入力された患者コードに対応した患者の病名その他の情報を抽出する。さらに、医師使用薬情報テーブル12の中から入力された医師コード5に対応した薬品コードを抽出し、薬品情報テーブル11より対応する薬品コードに該当する薬品名とこの薬品名に対応する成人常用量を抽出する(ステップ102)。このときすでに患者情報テーブル9より抽出した患者が保有する病名に該当する限定病名を病名情報

4

テーブル10より抽出しこの限定病名と薬品情報テーブル11より抽出したデータ中の限定病名が不一致となる薬品名とこれに対応する薬品コードおよび成人常用量は除かれる。このようにして抽出した各薬品に対応した演算指示が処理手段3より出力されると演算手段4は、抽出された患者の年齢、体重をもとに、該当患者に適した投与量を算出する(ステップ103)。特に小児投与量の算出は、薬品情報に登録されている値を引用する場合や、Augsbergerの式すなわち、小児投与量＝ $(\text{年齢} \times 4 + 20) / (100 \times \text{成人常用量})$ に基づいて計算するかあるいはVon Harnackの換算表により算出するように演算手段4を構成しておく。このように抽出された薬品名と算出された投与量の一覧を処理手段3がディスプレイ装置2に出力し表示する(ステップ104)。医師は、表示された薬品一覧の中から投薬すべき薬品を選択する。薬品が選択されると、選択された薬品に対する投与量もこの薬品に対応して決定されることになる(ステップ105)。

【0014】尚、(ステップ102)は医師コードにより抽出を行ったが、キーボード1から薬品名や投与量を入力することにより、医師使用薬情報12を必要としない薬品情報11のみによる抽出を行うことも可能となる。また、(ステップ105)においても、医師が投与量を直接入力することも可能となる。

【0015】このようにして決定された特定の患者に対する処方箋が処理手段3内に一時記憶される。この記憶された内容はキーボードから出力命令が入力されるとプリンタ5に出力される。なおプリンタ5の代りに外部記憶装置を接続し、上述の処理手段3内に生成され保存されている処方箋のデータを記憶させるようにしてもよい。

【0016】

【発明の効果】以上説明したように、本発明によれば、医師はキーボードより単純なデータを入力し、ディスプレイを見て自分が処方する薬品および投与量を決定できる。すなわち、医師は膨大な薬品情報を記憶することや、処方に関する文献を参照せずに処方データを入力すれば良いので、オペレータを必要とせず、医師の操作負担を軽減し、また、処方ミスによる誤りを防止することができるという効果を有する。

【図面の簡単な説明】

【図1】本発明の一実施例を示すブロック図である。

【図2】図1の外部記憶装置6の記憶内容の説明図である。

【図3】図1のディスプレイ上への表示画面の一例を示す説明図である。

【図4】本発明の動作を説明するフローチャートである。

【符号の説明】

1 キーボード

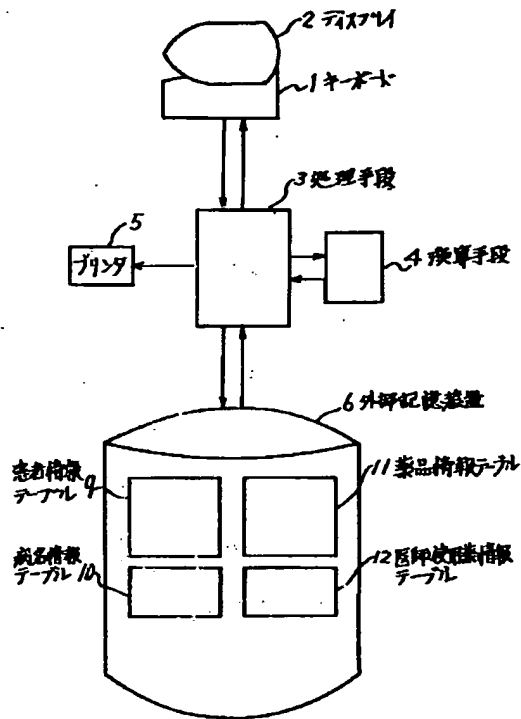
(4)

特開平5-40768

- 5  
2 ディスプレイ  
3 処理手段  
4 演算手段

- 5 プリンタ  
6 外部記憶装置

【図1】

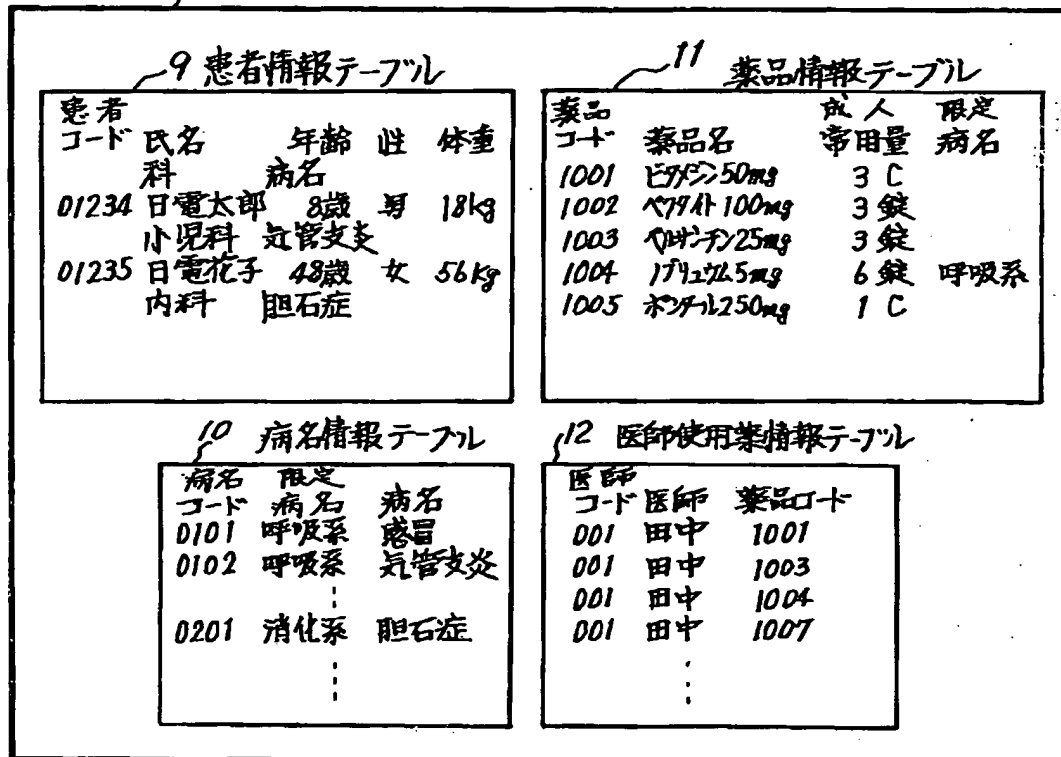


【図3】

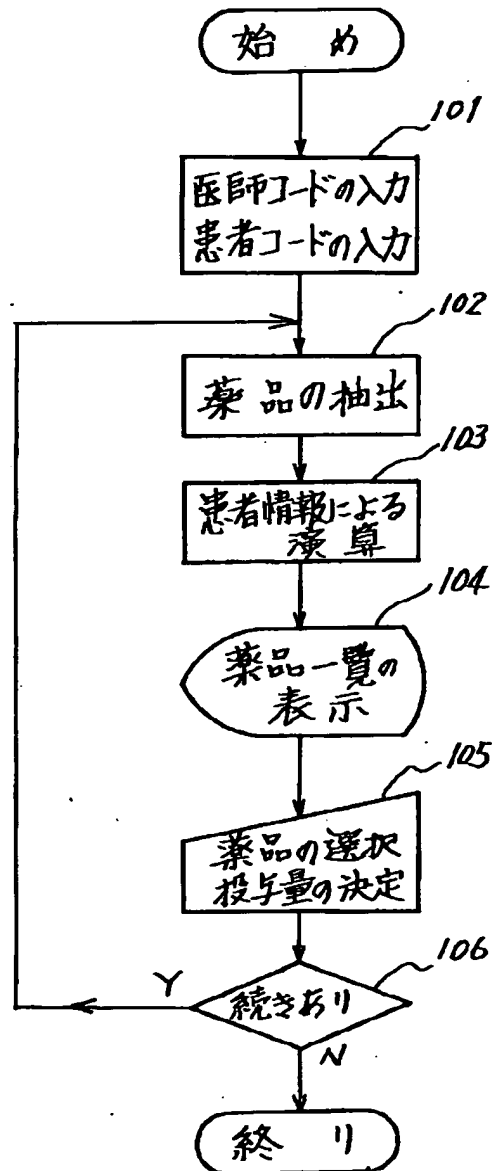
処方箋入力画面				90.06.30	
01234	日電太郎	6歳男	18kg	小児科	Dr田中
RP.1	90.06.30~	---			
1	ビタミン50mg	1 C	01 ノアエウ65mg	2錠	
2	■		02 ノイノ10mg	1錠	
			03 ヲルザチ25mg	1錠	
			...		
			99 (次画面へ)		
[確認] _					

【図2】

## 8 外部記憶装置



【図4】



PAT-NO: JP405040768A  
DOCUMENT-IDENTIFIER: JP 05040768 A  
TITLE: PRESCRIPTION DATA INPUT DEVICE  
PUBN-DATE: February 19, 1993

INVENTOR-INFORMATION:  
NAME  
NISHITANI, TAKASHI

ASSIGNEE-INFORMATION:  
NAME COUNTRY  
HOKURIKU NIPPON DENKI SOFTWARE KK N/A

APPL-NO: JP03194629  
APPL-DATE: August 5, 1991  
INT-CL (IPC): G06F015/21, G06F015/42

ABSTRACT:

PURPOSE: To present a device which easily prepares a prescription neither requiring a private operator nor manually calculating the dosage of medicines.

CONSTITUTION: An external storage device 6 is provided where required information such as a patient code related to a patient, medicines, the name of disease, a doctor, a doctor code, information related to medicines used by the doctor, and usual dosages for adults of medicines are stored. The patient code and the doctor code are inputted from a keyboard 1, and a list of medicine names suitable for the name of disease of the patient corresponding to the patient code is generated based on information stored in the external storage device 6 by a processing means 3, and the dosages of medicines having

these  
medicine names are calculated by an arithmetic means 4, and the  
results are  
displayed on a display device 2. Medicines are selected from  
displayed  
medicines to generate prescription data, and this data is outputted  
to a  
printer 5 on demand.

COPYRIGHT: (C)1993,JPO&Japio



**\* NOTICES \***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**CLAIMS**

---

[Claim(s)]

[Claim 1] A keyboard, a display, and the patient information table on which a patient code, age, sex, weight, and its name of a disease are matched to a patient's name, The name of a disease information table on which a name of a disease code and the limited name of a disease corresponding to that name of a disease were matched corresponding to the name of a disease and this name of a disease, The chemical information table on which the usual dose of a chemical code and an adult to a chemical name and this chemical name and the name of a disease to limit were matched, When the data-processing command about the external storage which memorizes the medical practitioner use medicine information table on which the medical practitioner code to a medical practitioner and this medical practitioner and the chemical code which this medical practitioner uses are matched, the data which should be calculated, and this data is added, When a patient code and a medical practitioner code are inputted as an operation means to perform the operation based on this data by the approach decided beforehand, and to output that result, from said keyboard, The data applicable to the inputted patient code In the medical practitioner code which extracted from said patient information table and was inputted again The corresponding data The chemical code which corresponds to the chemical code which extracted the limited name of a disease corresponding to the name of a disease in the data extracted and these-extracted from said name of a disease information table, and was extracted from said medical practitioner use table from said medical practitioner use medicine information table, and supports said extracted limited name of a disease It extracts from said chemical information table. Said data-processing command based on the information in this chemical information table with data required for this command As data which associated the list of administration chemicals to the patient of said patient code which made the dose the value which is outputted and said operation means outputs as a result, and the dose of this chemical Among the chemical lists which outputted to the display and were displayed on this display, with said keyboard The formula data entry unit characterized by having the processor which generates the prescription data which eliminated the chemical and this dose other than the chemical by which selection assignment was carried out, carries out printing storage, and outputs said prescription data by the output command from said keyboard.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DETAILED DESCRIPTION**

---

**[Detailed Description of the Invention]**

[0001]

[Industrial Application] Especially this invention relates to the formula data entry unit used when a medical practitioner etc. determines the name of article and its amount of chemicals of the drugs given to the target patient and inputs as data about a formula data entry unit.

[0002]

[Description of the Prior Art] In the medical office work in a medical institution, medical statement processing (processing which draws up a breakdown of medical expenses) is electronic-calculation-ized quickly in recent years. Therefore, it is necessary to also input into a computer the medication data which the medical practitioner prescribed, and medication data are inputted by various methods.

[0003] With this conventional kind of equipment, based on the prescription which the medical practitioner wrote by hand, an operator changes a chemical name into the code decided beforehand, and there are what is inputted into a computer with that dose, and equipment for a medical practitioner to input a chemical name and dosage into a direct computer.

[0004]

[Problem(s) to be Solved by the Invention] The chemical and dose which do not need the operator of dedication of various kinds of patients, but a medical practitioner needs in equipment beforehand are displayed automatically, and this invention aims at enabling it to perform alter operation, without not seeing reference or calculating a dose.

[0005] In this kind of the former mentioned above of formula data entry unit, OPERETA other than a medical practitioner changes a chemical name into a code based on the prescription which the medical practitioner created. With that dose Since it is easy to produce the error when changing a chemical name into a code, the input error of a dose, etc. in inputting into a computer as data Checking of prescription became indispensable by the pharmacist etc. about the input data mentioned above, and there was a fault which needs great time amount by termination of audit of the data from such an entry of data.

[0006] Moreover, in the case of the equipment (computer) which inputs a chemical name which the medical practitioner mentioned above or its code, and a dose, since it was usually unfamiliar to the handling to this kind of equipment, there was a fault which needs much time amount for a necessary entry of data.

[0007] Furthermore, in order to be dependent on whether the patient is suffered from the dose of the chemical which should be inputted to other illnesses also about which equipment mentioned above at the target patient's age, and weight and others, Before inputting into equipment by using a dose as data, there is a trouble which needs much time amount by needing a medical practitioner's knowledge for the decision of the value, and investigating the data about the target chemical depending on the case.

[0008]

[Means for Solving the Problem] The patient information table on which, as for the formula data entry unit of this invention, a patient code, age, sex, weight, and its name of a disease are matched with the keyboard and the display to a patient's name, The name of a disease information table on which a name

of a disease code and the limited name of a disease corresponding to that name of a disease were matched corresponding to the name of a disease and this name of a disease, The chemical information table on which the usual dose of a chemical code and an adult to a chemical name and this chemical name and the name of a disease to limit were matched, When the data-processing command about the external storage which memorizes the medical practitioner use medicine information table on which the medical practitioner code to a medical practitioner and this medical practitioner and the chemical code which this medical practitioner uses are matched, the data which should be calculated, and this data is added, When a patient code and a medical practitioner code are inputted as an operation means to perform the operation based on this data by the approach decided beforehand, and to output that result, from said keyboard, The data applicable to the inputted patient code In the medical practitioner code which extracted from said patient information table and was inputted again The corresponding data The chemical code which corresponds to the chemical code which extracted the limited name of a disease corresponding to the name of a disease in the data extracted and these-extracted from said name of a disease information table, and was extracted from said medical practitioner use table from said medical practitioner use medicine information table, and supports said extracted limited name of a disease It extracts from said chemical information table. Said data-processing command based on the information in this chemical information table with data required for this command As data which associated the list of administration chemicals to the patient of said patient code which made the dose the value which is outputted and said operation means outputs as a result, and the dose of this chemical

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

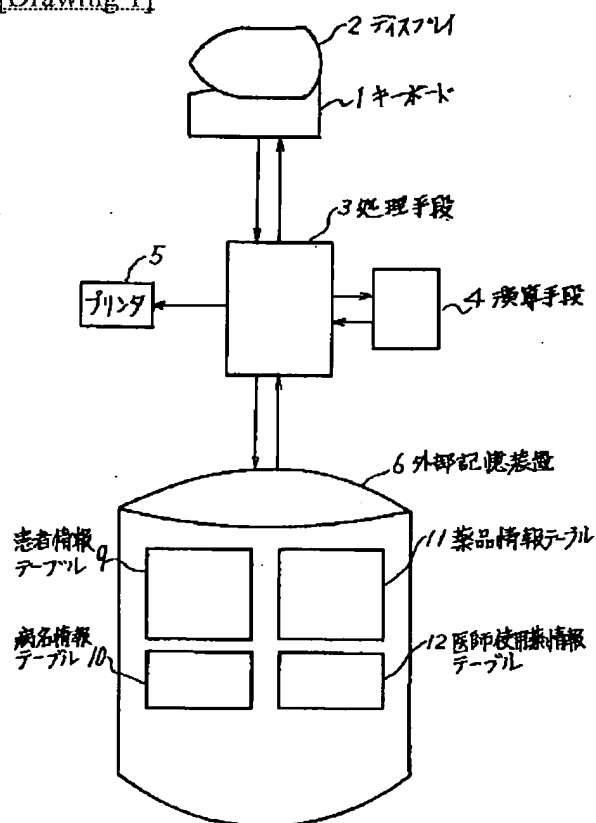
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DRAWINGS

---

[Drawing 1]



[Drawing 3]

処方箋入力画面				90.06.30
01234	日電太郎	6歳男	18kg	小児科 Dr.田中
RP.1	90.06.30~	---薬品検索---		
1	ビタミン50mg	1 C	01 ノリコルム5mg	2錠
2	■		02 ノリコルム10mg	1錠
			03 ベルサンチン25mg	1錠
			99 (次画面へ)	
[確認] _				

[Drawing 2]

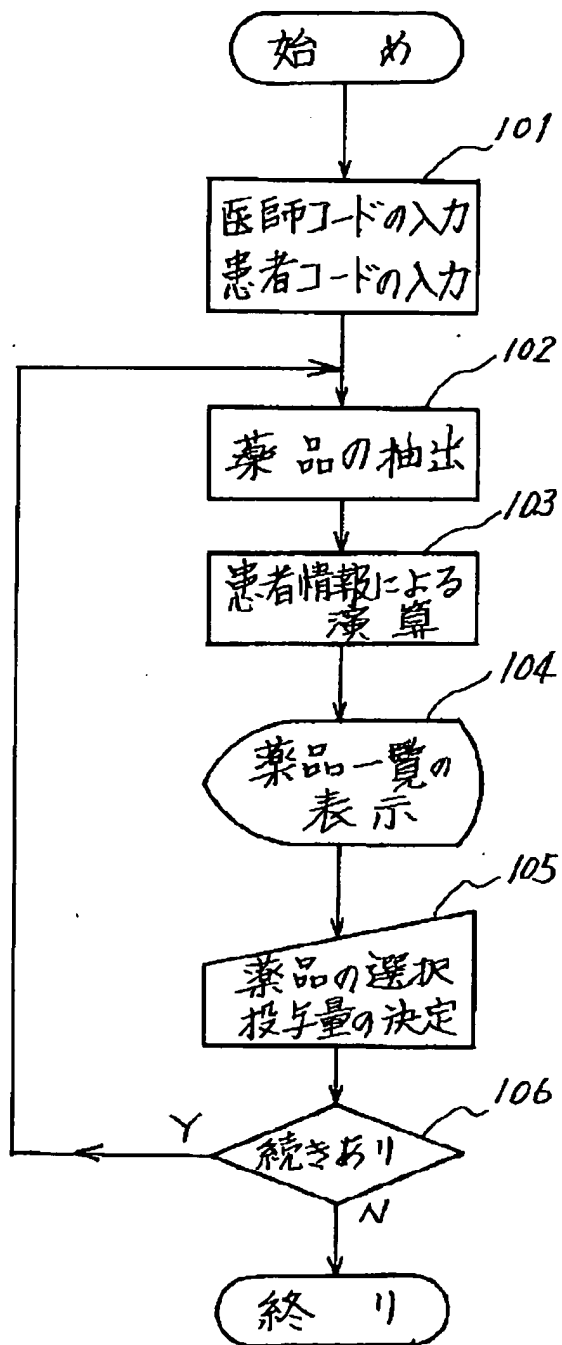
## 8 外部記憶装置

9 患者情報テーブル					11 薬品情報テーブル			
患者 コード	氏名	年齢	性	体重	薬品 コード	薬品名	成人 常用量	限定 病名
01234	日電太郎	8歳	男	18kg	1001	ビタミン50mg	3 C	
	小児科	気管支炎			1002	ペリドール100mg	3錠	
01235	日電花子	48歳	女	56kg	1003	ベルサンチン25mg	3錠	
	内科	胆石症			1004	ノリコルム5mg	6錠	呼吸系
					1005	ホンタル250mg	1 C	

10 病名情報テーブル			12 医師使用薬情報テーブル		
病名 コード	限定 病名	病名	医師 コード	医師	薬品コード
0101	呼吸系	感冒	001	田中	1001
0102	呼吸系	気管支炎	001	田中	1003
			001	田中	1004
0201	消化系	胆石症	001	田中	1007

[Drawing 4]



[Translation done.]

**\* NOTICES \***

**JPO and NCIPI are not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL FIELD**

---

[Industrial Application] Especially this invention relates to the formula data entry unit used when a medical practitioner etc. determines the name of article and its amount of chemicals of the drugs given to the target patient and inputs as data about a formula data entry unit.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**PRIOR ART**

---

[Description of the Prior Art] In the medical office work in a medical institution, medical statement processing (processing which draws up a breakdown of medical expenses) is electronic-calculation-ized quickly in recent years. Therefore, it is necessary to also input into a computer the medication data which the medical practitioner prescribed, and medication data are inputted by various methods. [0003] With this conventional kind of equipment, based on the prescription which the medical practitioner wrote by hand, an operator changes a chemical name into the code decided beforehand, and there are what is inputted into a computer with that dose, and equipment for a medical practitioner to input a chemical name and dosage into a direct computer.

---

[Translation done.]



**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**EFFECT OF THE INVENTION**

---

[Effect of the Invention] As explained above, according to this invention, a medical practitioner inputs data simpler than a keyboard, and can determine the chemical and dose which look at a display and he prescribes. That is, a medical practitioner has the effectiveness that huge chemical information is memorized, an operator cannot be needed, a medical practitioner's actuation burden can be mitigated, and the error by formula mistake can be prevented since what is necessary is just to input formula data, without referring to the reference about a formula.

---

[Translation done.]

**\* NOTICES \***

**JPO and NCIPi are not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL PROBLEM**

---

[Problem(s) to be Solved by the Invention] The chemical and dose which do not need the operator of dedication of various kinds of patients, but a medical practitioner needs in equipment beforehand are displayed automatically, and this invention aims at enabling it to perform alter operation, without not seeing reference or calculating a dose.

[0005] In this kind of the former mentioned above of formula data entry unit, OPERETA other than a medical practitioner changes a chemical name into a code based on the prescription which the medical practitioner created. With that dose Since it is easy to produce the error when changing a chemical name into a code, the input error of a dose, etc. in inputting into a computer as data Checking of prescription became indispensable by the pharmacist etc. about the input data mentioned above, and there was a fault which needs great time amount by termination of audit of the data from such an entry of data.

[0006] Moreover, in the case of the equipment (computer) which inputs a chemical name which the medical practitioner mentioned above or its code, and a dose, since it was usually unfamiliar to the handling to this kind of equipment, there was a fault which needs much time amount for a necessary entry of data.

[0007] Furthermore, in order to be dependent on whether the patient is suffered from the dose of the chemical which should be inputted to other illnesses also about which equipment mentioned above at the target patient's age, and weight and others, Before inputting into equipment by using a dose as data, there is a trouble which needs much time amount by needing a medical practitioner's knowledge for the decision of the value, and investigating the data about the target chemical depending on the case.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**MEANS**

---

[Means for Solving the Problem] The patient information table on which, as for the formula data entry unit of this invention, a patient code, age, sex, weight, and its name of a disease are matched with the keyboard and the display to a patient's name, The name of a disease information table on which a name of a disease code and the limited name of a disease corresponding to that name of a disease were matched corresponding to the name of a disease and this name of a disease, The chemical information table on which the usual dose of a chemical code and an adult to a chemical name and this chemical name and the name of a disease to limit were matched, When the data-processing command about the external storage which memorizes the medical practitioner use medicine information table on which the medical practitioner code to a medical practitioner and this medical practitioner and the chemical code which this medical practitioner uses are matched, the data which should be calculated, and this data is added, When a patient code and a medical practitioner code are inputted as an operation means to perform the operation based on this data by the approach decided beforehand, and to output that result, from said keyboard, The data applicable to the inputted patient code In the medical practitioner code which extracted from said patient information table and was inputted again The corresponding data The chemical code which corresponds to the chemical code which extracted the limited name of a disease corresponding to the name of a disease in the data extracted and these-extracted from said name of a disease information table, and was extracted from said medical practitioner use table from said medical practitioner use medicine information table, and supports said extracted limited name of a disease It extracts from said chemical information table. Said data-processing command based on the information in this chemical information table with data required for this command As data which associated the list of administration chemicals to the patient of said patient code which made the dose the value which is outputted and said operation means outputs as a result, and the dose of this chemical Among the chemical lists which outputted to the display and were displayed on this display, with said keyboard It has the processor which generates the prescription data which eliminated the chemical and this dose other than the chemical by which selection assignment was carried out, carries out printing storage, and outputs said prescription data by the output command from said keyboard, and is constituted.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

EXAMPLE

---

[Example] Next, this invention is explained with reference to a drawing.

[0010] Drawing 1 is the block diagram showing one example of this invention, drawing 2 is the explanatory view of the contents of storage of the external storage 6 of drawing 1, drawing 3 is the explanatory view showing an example of a screen display to a display, and drawing 4 is a flow chart explaining actuation of this invention.

[0011] The display unit 2 as an output means by which this example displays the keyboard 1 as an entry-of-data means, and required information, The external storage 6 which stores the patient information table 9, the name of a disease information table 10, the chemical information table 11, and the medical practitioner use medicine information table 12, An operation means 4 to perform the operation by the procedure beforehand defined corresponding to the directions when operation directions are added, It consists of printers 5 which print on space the output from the processing means 3 and the processing means 3 which incorporates the data which outputted the processing and the above-mentioned operation directions which were beforehand defined according to the input from a keyboard, and the operation means 4 generated.

[0012] Corresponding to a patient code and this patient code, a name, age, weight, and the name of a disease are registered into the patient information table 9 in external storage 6. A name of a disease code, a name of a disease classification, the name of a disease, etc. are registered into the name of a disease information table 10 corresponding to the name of a disease code. The chemical name corresponding to a chemical code and this chemical code, its adult usual dose, its drug effect, the limited name of a disease, etc. are registered into the chemical information table 11 corresponding to the medical practitioner code.

[0013] Next, actuation is explained with reference to the flow chart of drawing 4. First, the medical practitioner who inputs formula data operates a keyboard, and inputs a medical practitioner code and the patient code 4 as input data (step 101). The processing means 3 extracts the information on the name of a disease and others of the patient corresponding to the patient code inputted by this input data out of the patient information table 9 memorized by external storage 6. Furthermore, the chemical code corresponding to the medical practitioner code 5 inputted out of the medical practitioner use medicine information table 12 is extracted, and the adult usual dose corresponding to the chemical name applicable to the chemical code which corresponds from the chemical information table 11, and this chemical name is extracted (step 102). The limited name of a disease applicable to the name of a disease which the patient who already extracted from the patient information table 9 at this time holds is extracted from the name of a disease information table 10, and the chemical code and adult usual dose corresponding to the chemical name and this from which this limited name of a disease and the limited name of a disease in the data extracted from the chemical information table 11 become inharmonious are removed. Thus, if the operation directions corresponding to each extracted chemical are outputted from the processing means 3, the operation means 4 will compute the dose suitable for an applicable patient based on a patient's extracted age and weight (step 103). It calculates based on the case where the value registered into chemical information is quoted, and the formula (100x adult usual dose) of Augsberger,

i.e., child dose  $= (\text{age} \times 4 + 20) /$ , or especially calculation of a child dose is Von. The operation means 4 is constituted so that it may compute by the conversion chart of Harnack. Thus, procedure 3 outputs and displays the list of the extracted chemical name and the computed doses on DIPUREI equipment 2 (step 104). A medical practitioner chooses the chemical which should be prescribed out of the displayed chemical list. When a chemical is chosen, the dose to the selected chemical will also be determined corresponding to this chemical (step 105).

[0014] In addition, although (step 102) extracted in medical practitioner code, it becomes possible [ also performing the extract only using the chemical information 11 which does not need the medical practitioner use medicine information 12 ] by inputting a chemical name and a dose from a keyboard 1. Moreover, also in (step 105), it also becomes possible for a medical practitioner to do the direct input of the dose.

[0015] Thus, the prescription to the determined specific patient is stored temporarily in the processing means 3. These memorized contents will be outputted to a printer 5, if an output instruction is inputted from a keyboard. In addition, external storage is connected instead of a printer 5, and you may make it make the data of the prescription which is generated and is saved in the above-mentioned processing means 3 memorize.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DESCRIPTION OF DRAWINGS

---

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing one example of this invention.

[Drawing 2] It is the explanatory view of the contents of storage of the external storage 6 of drawing 1.

[Drawing 3] It is the explanatory view showing an example of the display screen to the display top of drawing 1.

[Drawing 4] It is a flow chart explaining actuation of this invention.

[Description of Notations]

1 Keyboard

2 Display

3 Processing Means

4 Operation Means

5 Printer

6 External Storage

---

[Translation done.]